	_	

Please type	a plus s	ign (+) insid	e this box	[+]					Patent a	Approved for use through 10/31/2002, OMB 0 and Trademark Office: U.S. DEPARTMENT OF CO	
		Inder the Pa	perwork F	Reduction Act of 1995	. no pe	rsons are requin	ed	to respond to a c	collection	n of information unless it displays a valid OMB contri	ol numbe
		Subs	stitute for F	Form 1449A/PTO			_	nalization Num	.	Complete If Known	
					_			Application Num	Der	0/635999	
				N DISCLOSUR	_		_	iling Date		01/193	
		SIAIE	MEN	BY APPLICAN	•			irst Named Inve	ntor	Udayakumar et al.	
		(use as	s many sh	eets as necessary)			_	Group Art Unit		2823	
			—-т			т	_	xaminer Name		FOURSON	
Sheet				of	_	1 1	<u> </u>	ttomey Docket N	lo.	TI-35995	
						U.S. PATENT	D	OCUMENTS		· · · · · · · · · · · · · · · · · · ·	
		L L	J.S. Paten	t Document	Nan	e of Patentee or	-1	Date of Pub. of	,		
Exam.	Cite	N	umber	Kind Code ²	Aρ	plicant of Cited		Cited Doc.	Pag	ges, Columns, Lines, Where Relevant Passages or F	Relevant
Initials*	No.1			(if known)	-	Doc.	4	(mm-dd-yyyy)		Figures Appear	
	AA	6,5	76.482	B1	_Ag	garwal et al.	4	06/10/2003	En	tire Document	
	AB				<u> </u>		4				
	AC						4		_		
· · · · · · · · · · · · · · · · · · ·	AD				ļ		4			·	
	AF						_				
	AG					····	_				
	AH	<u> </u>	_		<u> </u>				Щ_		
	• "					OREIGN PATE	NT	DOCUMENTS			
		Fo	reion Pat	ent Document		me of Patentee		Date of Pub.			
Exam.	Cite No.1	Kind Code ²		or Applicant of		ı	of Cited Doc.	Pages	s, Columns, Lines, Where Relevant Passages or	T ⁶	
Initials*	NO.	Office ³	Numb	er (if known)	Cited Doc. (mm-dd-yyyy) Relevant Figures Ap		Relevant Figures Appear				
	BA						Ļ				
	BB				-		╀				
	BF						╀				_
	BG			-	+-		╀				
	ВН	لــــــا		L							
				OTHER P	RIOR	ART - NON PAT	EN	IT LITERATURE	DOCU	MENTS	
Exam. Initials	Cite No.1	Include	name of the	ne author (in CAPITAL osium, catalog, etc.), o	LETT	ERS), title of the age(s), volume-is	arl su	ticle (when appro e number(s), put	opriate), olisher, c	title of the item (book, magazine, journal, serial, city and/or country where published.	T²
(F)	CA			ogen Content o tute of Physics.						, W. A. LANFORD and M. J. RAND, s. 2473-2477.	
(7)	СВ	"Fre	e Ener		Ana	lysis of Bor	nd	ing in a-SixN	-	lloys", Z. YIN and W. SMITH, J. Vac.	
	СС					-			on Ni	itride for Advanced Interconnect	
(5)		Applica	tions",	J. YOTA, M. JA	NAN	, L.E. CAMI	LL	ETTI, A. KA	R-RO	Y, Q.Z. LIU, C. NGUYEN, M.D. WOO	
G	CD	"Ну	drogen	Role on the Pro	pert	es of Amor	ph	ous Silicon	Nitrid Numb	de", F. DE BRITO MOTS, J.F. JUSTO der 4, August 15, 1999, pgs. 1843-	
	CE	10-11,									
	CF						-				
	СН		·						· · ·		
											
Evac-1				1							
Examiner			,	01.011.1					- 1	Date ///7/mc	

Signature Considered *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

US and Foreign Patent Documents: 1Unique citation designation number. 2See attached Kinds of U.S. Patent Documents. 3Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. *Applicant is to place a check mark here if English language Translation is attached.

Other Prior Art/Non-Patent Literature Documents: Unique citation designation number. Applicant is to place a check mark here if English Translation is attached.

PTO/SB/08A (08-00) Approved for use through 10/31/2002. OMB 0651-0031

plus sign (+) inside this box	+	Petert e	PTO/SB/00 Approved for use through 10/31/2002. OMB 0 and Trademark Office: U.S. DEPARTMENT OF CO	651-0031
Under the Paperwork Reduct	tion Act of 1995, no persons are requ		of information unless it displays a valid OMB control	
			Complete If Known	
Substitute for Form 1	1449A/PTO	Application Number	10/635,994	

			Complete If Known			
Substitute	for Form 1449A/PTO		Application Number	10/635,994		
OIFFINEORMAT	ION DISCLOSURE		Filing Date	August 7, 2003		
	T BY APPLICANT		First Named Inventor	Udayakumar et al.		
OCT 0 7 2003 Aule as man	y sheets as necessary)		Group Art Unit	2823		
	y sheets as necessary)		Examiner Name	Inheson.		
Speet	of	2	Attorney Docket No.	TI-35995		
MADEUM						

				U.S. PATENT D	OCUMENTS	
Exam.	Cite No.1	U.S. Patent Do	cument Kind Code ² (if known)	Name of Patentee or Applicant of Cited Doc.	Date of Pub. of Cited Doc. (mm-dd-yyyy)	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
Ŧ	AA	5,452,178		Emesh et al.	09/19/1995	Entire Document
~/>	AB	5,972,722		Visokay et al.	10/26/1999	Entire Document
()	AC	6,090,697		Xing et al.	07/18/2000	Entire Document
٤)	AD	6.144,060		Park et al.	11/07/2000	Entire Document
<u> </u>	AE	6,177,351	B1	Beratan et al.	01/23/2001	Entire Document
(5	AF	6,225,656	B1	Cuchiaro et al.	05/01/2001	Entire Document
F	AG	6,242,299	B1	Hickert	06/05/2001	Entire Document
(3	AH	6,261,967	B1	Athavale et al.	07/17/2001	Entire Document
Œ	AI	6,291,251	B1	Nam	09/18/2001	Entire Document
. (F	AJ	6.423.592	B1	Sun	07/23/2002	Entire Document
7	AK	6,495,413	B2	Sun et al.	12/17/2002	Entire Document
(}	AL	6.528.386	B1	Summerfelt et al.	03/04/2003	Entire Document
J	AM	6,534,809	B2	Moise et al.	03/18/2003	Entire Document
<u>J</u>	AN	6,611,014	B1	Kanaya et al.	08/26/2003	Entire Document
F	AO	2001/0034106	A1	Moise et al.	10/25/2001	Entire Document
3	AP	2001/0044205	A1	Gilbert et al.	11/22/2001	Entire Document

					FOREIGN PATE	NT DOCUMENTS		
Exam.	Cite No.1	Office ³	oreign Patent Doo Number ⁴	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Doc.	Date of Pub. of Cited Doc. (mm-dd-yyyy)	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	BA							
	ВВ							
	BF							
<u></u>	ВG							
	вн							

	,	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Exam. Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published,	T²
F	CA	"FeRAM Tutorial", ALI SHEIKHOLESLAMI and P. GLENN GULAK, A survey of circuit Innovations in Ferroelectric random-access memories, Proceedings of the IEEE, Vol. 88, No. 3, May, 2000. 3 pages, taken from the Internet at: http://www.eecg.toronto.edu/-ali/ferro/tutorial.html.	
F	СВ	"A survey of Circuit Innovations in Ferroelectric Random Access Memories", ALI SHEIKHOLESLAMI and P. GLENN GULAK, Proceedings of the IEEE, Vol. 88, No. 5, May, 2000, pp. 667-689.	
F	СС	"Generic CVD Reactor", CVD Basics, DANIEL M. DOBKIN, Dec. 7, 2001, 3 pages, taken from th Internet at: http://www.batnet.com/enigmatics/semiconductor_proc_ssing/CVD_Fundam_ntals/introdu	
F	CD	"Physical Vapor Deposition", Cougar Labs, Inc., Dec. 7, 2001, 9 pag s, taken from the Int rnet at: http://www.cougarlabs.com/pvd1.html.	

Signature

PTO/SB/08A (08-00) Approved for use through 10/31/2002. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

					of information unless it displays a valid QMB control nu Complete If Known
	Substitu	te for Form 1449A/PTO	IPE	Application Number	10/635,994
	INFORMA	TION DISCLOSURE	40	Filing Date	August 7, 2003
	STATEME	ENT BY APPLICANT	9	First Named Inventor	Udayakumar et al.
		OCT OCT	0 7 2003	Group Art Unit	2823
	(use as m	any sheets as necessary	<u></u>	Examiner Name	FOURSON
Sheet	2	of 199	THATEUPER P	Attorney Docket No.	TJ-35995 ·

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Exam. Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), yolume-issue number(s), publisher, city and/or country where published.	Τ²
G	CE	"Parasitic Channel Induced by Spin-On-Glass In a Double-Level Metallization Complimentary Metal Oxide Semiconductor Process", M. MURATA, K. YOMAUCHI, H. KOJIMA, A. YOKOYAMA, T. INOUE and T. IWAMORI, published in the Journal of Electrochemical Society, Volume 149, No. 8, 1993, pgs. 2346-2356.	
G	CF	"Effects of Oxygen Content on Properties of Silicon Oxide Films Prepared at Room Temperature by Sputtering-Type Electron Cyclotron Resonance Plasma", KATSUHIKO FURUKAWA, YICHUN LIU, HIROSHI NAKASHIMA, DAWEI GAO, YASUHIRO KASHIWAZAKI, KIICHIRO UCHINO, KATSUNORI MURAOKA and HIROHISA TSUZUKI, Journal of Applied Physics, Volume 84, Number 8, October 15, 1998, pp. 4579-4584.	
G	CG	Notes taken at the International Symposium on Applications of Ferroelectrics Conference in Nara, Japan In May, 2002. The speaker was H. Nagel of Infineon Technologies and Toshiba Corporation, Key Technologies for High Density FeRAM Application, one page,	
	СН		
	CI		
	CJ		
	CK		
	CL		
	CM		
	CN		
Examiner	r	Tay Date 4/2805	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Considered

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the Individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

¹Unique citation designation number. ²Applicant is to place a check mark here if English Translation is attached.

\Box
l _'J

Approved for use through 10/31/2002. OMB 0651-0031

	Under the Paperwork	Reduction Act of 1995, no per	sons are requ		Ind Trademark Office: U.S. DEPARTMENT OF COMMERC
4		_			Complete If Known
پ	Substitute for	Form 1449A/PTO		Application Number	10/635,994
2004	INFORMATIO	Filing Date August 7, 2003			
į		BY APPLICANT		First Named Inventor	Udayakumar et al.
AARK OF	(van an manu a	boots on monograph		Group Art Unit	2823
AARK.	(use as many s	heets as necessary)		Examiner Name	FOURSON
reet	1	of	1	Attorney Docket No.	TI-35995

				U.S. PATENT I	DOCUMENTS	
		U.S. Patent (Document	Name of Patentee or	Date of Pub. of	
Exam. Initials*	Cite No. ¹	Number	Kind Code ² (if known)	Applicant of Cited Doc.	Cited Doc. (mm-dd-yyyy)	Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear
	AA	5,825,068		Yang	10/20/1998	Entire Document
	AB	6,642,100	B2	Yang et al.	11/04/2003	Entire Document
	AC					
	AD.					
	AE					
	AF					
	AG					
	AH			-		
	Al					
	AJ					
	AK					
	AL					
	AM					
	AN					
	AO					
	AP					

					FOREIGN PATE	NT DOCUMENTS		
		Foreign Patent Document			Name of Patentee	Date of Pub.		
Exam. Initials*	Cite No. ¹	Office ³	Number ⁴	Kind Code ² (if known)	or Applicant of Cited Doc.	of Cited Doc. (mm-dd-yyyy)	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	۴
	ВА							
	BB							
	ВС							
	BD							
L	BE_			l				

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS							
Exam. Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(a), volume-issue number(s), publisher, city and/or country where published.	Τ²				
	CA						
•	СВ						
	СС						
	CD						

			/	<u> </u>		
Examiner	(α, α, β)	Date	1.1	2 /	`~\~.	
Signature	TU(K)6~	Considered	41)0/	97	
				~		_

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English Translation is attached.

Approved for use through 7/31/2006 OMB 0651-0031

		Indeed the Democrate Code				and Trademark Office: U.S. DEPARTMENT OF COMMERCE	
			6	no persons are requir	required to respond to a collection of information unless it displays a valid OMB control number Complete If Known		
		Substitute for Form	1449A/PJO U		Application Number	10/635,994	
		INFORMATION D	ISCLOSURI	E. 5 mm, (3)	Filing Date	August 7, 2003	
		INFORMATION D STATEMENT BY	APPLICAN	1 5 2004 7	First Named Inventor	K. R. Udayakumar et al.	
		fuse as many shoots	ac nacacata		Group Art Unit	2823	
		(use as many sheets	35 110 263 35 7	BADEMARKS	Examiner Name	Fourson	
Sheet		1	of	1	Attorney Docket No.	TI-35995	
		····					
				_U.S. PATENT	DOCUMENTS		
		. U.S. Patent Doo	ument	Name of Patentee			
Exam.	Cite	Number	Kind Code ²	Applicant of Cited D	oc. Cited Doc.	Pages, Columns, Lines, Where Relevant Passages or	

1	U.S. POICHI DOC	Dittolk	Name of Patentee of	Date of Pub. of	
Cite No.1	Number	Kind Code ² (if known)	Applicant of Cited Doc.	Cited Doc. (mm-dd-yyyy)	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
_ AA	6,706,540	B2	Hikosaka et al.	03/16/2004	Entire Document
AB	6,781,184	B2	Solayappan et al.	08/24/2004	Entire Document
AC					
AD					
AE					
AF					
	· · · · · · · · · · · · · · · · · · ·	·	EODEIGN DATENT D	OCUMENTS	
	AA AB AC AD AE	Cite No.1 Number AA 6,706,540 AB 6,781,184 AC AD AE	No.1 Number (if known) AA 6,706,540 B2 AB 6,781,184 B2 AC AD AE	Cite No.1 Number Kind Code² (if known) Applicant of Cited Doc. AA 6,706,540 B2 Hikosaka et al. AB 6,781,184 B2 Solayappan et al. AC AD AE AF	Cite No.1 Number Kind Code ² (if known) Applicant of Cited Doc. (mm-dd-yyyy) Cited Doc. (mm-dd-yyyy) AA 6,706,540 B2 Hikosaka et al. 03/16/2004 AB 6,781,184 B2 Solayappan et al. 08/24/2004 AC AD AE AE

FOREIGN PATENT DOCUMENTS									
	Cite No.1	Foreign Patent Document		Name of Patentee	Date of Pub.				
Exam. Initials*		Office ³	Number ⁴	Kind Code ² (if known)	or Applicant of Cited Doc.	of Cited Doc. (mm-dd-yyyy)	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	τ⁵	
	ВА								
	ВВ								
	ВС								
	BD								

	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS							
Exam. Initials*								
	CA							
	СВ							
	СС		_					
	CD							
	CE							
	CF							
	CG							
	СН							

Examiner Signature	FOURSUN	Date Considered	4/30/	20
*EXAMINER: I	initial if reference considered, whether or not citation is in conformance with MPI	P 609. Draw line through citation	if not in conform	nance and not considered
Include copy of	f this form with next communication to applicant.	_		

US and Foreign Patent Documents: ¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if

English language Translation is attached.

Other Prior Art/Non-Patent Literature Documents: 'Unique citation designation number. 'Applicant is to place a check mark here if English Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. OO NOT SEND FES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231